U.S. DEPARTMENT OF ENERGY

Non-equilibrium Energy Research Center
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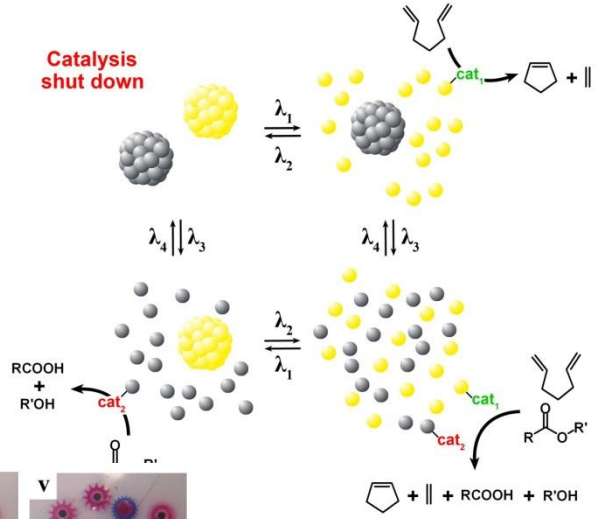
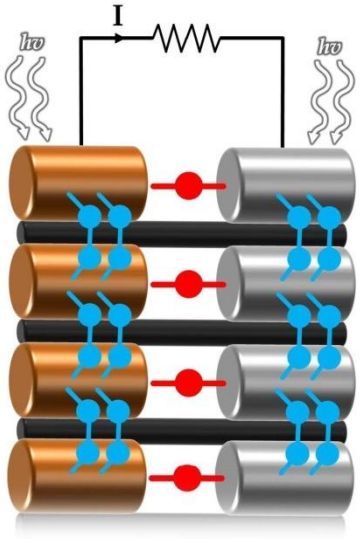
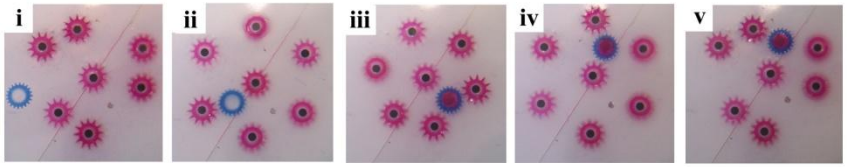
To understand self-organization far from equilibrium and to use this knowledge to synthesize adaptive, reconfigurable materials for energy storage and transduction.







The practical goal of this research is to synthesize metastable materials that can adapt to changing environmental conditions and can harness and/or transduce maximal amounts of useful energy. These materials will be formed by non-equilibrium self-assembly and will comprise "programmable" nanoscopic components.

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